

| | | | | | | | | | |
|---|--|---|---|-------------------------------|--------------|--|---|--|--|
| Please type or print in the unshaded areas only | | | EPA ID Number (Copy from Item 1 of Form 1) VAD003121928 | | | Form Approved OMB No. 2040-0086 Approval expires 7-31-88 | | | |
| Form 2C NPDES |  <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICUTLRAL OPERATIONS Consolidated Permits Program</p> | | | | | | | | |
| I. Outfall Location | | | | | | | | | |
| For this outfall, list the latitude and longitude, and name of the receiving water(s) | | | | | | | | | |
| Outfall Number (<i>list</i>) | Latitude | | | Longitude | | | Receiving Water (name) | | |
| | Deg | Min | Sec | Deg | Min | Sec | | | |
| 005 | 37 | 17 | 00 | 77 | 16 | 25 | <i>Bailey Creek (via E. Bear Creek)</i> | | |
| 006 | 37 | 17 | 00 | 77 | 16 | 25 | <i>Bailey Creek (via E. Bear Creek)</i> | | |
| Dry weather flow from Outfalls 001 and head of 002 ditch are pumped to storm sewer that drains to Outfall 006 ditch. See flows in following section. | | | | | | | | | |
| II. Flows, Sources of Pollution, and Treatment Technologies | | | | | | | | | |
| <p>A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g. for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.</p> <p>B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.</p> | | | | | | | | | |
| 1. Outfall Number | 2. Operations Contributing Flow | | | | 3. Treatment | | | | |
| | a. OPERATION (<i>list</i>) | b. AVERAGE FLOW | a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | | | | | |
| 005 | Groundwater/Steam Condensate | 0.02 MGD | NA | | | | | | |
| | Stormwater Runoff | 0.1 MG | NA | | | | | | |
| | Firewater | 0.01 MG | NA | | | | | | |
| | Run-on from Intake 007 | 0.002 MGD | NA | | | | | | |
| 006 (includes internal Outfall 601) | Groundwater / Steam Condensate | 0.003 MGD | NA | | | | | | |
| | Stormwater Runoff | 0.04 MG/event | NA | | | | | | |
| | EO/PO Tanks Cooling Water | 0.05 MG/event | NA | | | | | | |
| | Firewater | 0.01 MG/event | NA | | | | | | |
| | Groundwater pumped from lift stations at Outfall 001 and Head of 002 Ditch | 0.003 MGD dry weather Est 0.03 MG rain event | NA | | | | | | |
| | White Water Lagoon overflow (mostly associated with rain events) | 2,000 GPD dry weather | NA | | | | | | |
| | Heavy rain event overflow from Storm Water Lift Station (AKA Old Main Lift Station) through 601 | 0.001-0.05 MG per event (Rare) | Industrial wastewater diluted with 10:1 rainwater | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OFFICIAL USE ONLY (effluent guidelines subcategories) | | | | | | | | | |

CONTINUED FROM PAGE 1

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

YES (complete the following table)

NO (go to Section III)

| 1. OUTFALL NUMBER (list) | 2. OPERATION(s) CONTRIBUTING FLOW (list) | 3. FREQUENCY | | 4. FLOW | | | | c. DUR- ATION (in days) |
|-----------------------------|--|--|---|--------------------------|--|---|---------------------|-------------------------------|
| | | a. DAYS PER WEEK (specify average) | b. MONTHS PER YEAR (specify average) | a. FLOW RATE (in mgd) | | b. TOTAL VOLUME (specify with units) | | |
| 005 | Firewater testing and trips | 1 | 12 | | | 0.001MG | 0.02 MG/ 20 min. | |
| 006 | EO/PO Tanks cooling water | One month (when ambient temp much over 90°F) | | | | 0.001MG | 0.075 MG/ 8 hr. | |
| 006 | Firewater testing and trips | -- | 12 | | | 0.001MG | 0.02 MG/ 20 min. | |
| 006 | Storm water lift station (dilute wastewater through 601) | -- | 1/year | | | < 0.0001MG | 0.05 MG/ 30 min. | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

YES (complete Item III-B)

NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

YES (complete Item III-C)

NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION

| a. QUANTITY PER DAY | b. UNITS OF MEASURE | c. OPERATION, PRODUCT, MATERIAL, ETC. (specify) | 2. AFFECTED OUTFALLS (list outfall numbers) |
|---------------------|---------------------|--|---|
| | | | |

Sec III questions are not applicable because VPDES outfalls do not discharge any production water.

IV. IMPROVEMENTS

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

YES (complete the following table)

NO (go to Item IV-B)

| 1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | 2. AFFECTED OUTFALLS | | 3. BRIEF DESCRIPTION OF PROJECT | 4. FINAL COMPLIANCE DATE | |
|--|----------------------|---|---|-----------------------------|-------------------|
| | a. No | b. SOURCE OF DISCHARGE | | a. REQ- UIRED | b. PRO- JECTED |
| Facility Lead Agreement 2/2002 | 005/006 | Former Wastewater Treatment units that potentially contaminated groundwater | See attached Fact Sheet 2008. EPA agrees migration of contaminated groundwater under control. Ecological sampling is being evaluated to determine any ecological impacts that need attention. | NA | 12/ 2013 |

For Part IVB (Below)

| | | | |
|------|-----|---|------|
| None | 005 | Attached -- Zinc Source/Minimization Summary | None |
| None | 006 | Attached - Copper Source/Minimization Summary | None |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

X MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAM IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets number V-1 through V-9.

D: Use the space below list any of the pollutants listed in Tables 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| 1. POLLUTANT | 2. SOURCE | 1. POLLUTANT | 2. SOURCE |
|--------------|--|----------------------|---|
| Asbestos | Reported in this section previously, but all friable asbestos is encapsulated. Believed absent. | | |
| Xylene | Reported in this section previously. Benzene, ethyl benzene, toluene and xylene (BETEX) may be found in gasoline. Sound SPCC and SWPP protect outfalls. Believed absent as verified by attached results. | Propylene Oxide (PO) | Reported in this section previously. Tank dike drained to Outfall 006 only after testing water to assure no PO. If present, would pump to industrial sewer – so not present in 006 water. |
| | | | |
| | | | |
| | | | |
| | | | |

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

YES (list all such pollutants below)

NO (go to Item VI-B)

Chloroethane benzene, toluene and ethylbenzene were mentioned in this section previously; however, they are believed absent and the absence is verified by sampling. See Form 2C, Part V-C and Form 2F Table VII-B for monitoring information.

Sulfuric acid is used in the laboratory and in a process scrubber. These areas drain to an industrial sewer covered by industrial pretreatment permit.

CONTINUED FROM PAGE 3**VII. BIOLOGICAL TOXICITY TESTING DATA**

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purpose below)

NO (go to Section VIII)

In accordance with current VPDES permit (Part 1.D requirements), acute toxicity and chronic toxicity have been performed annually using Ceriodaphnia dubia at outfalls 005 and 006 for the years 2005 through 2008. Starting in 2009, for Outfall 005, acute testing was also performed quarterly. Results of < 100% at 005 are believed due to contaminants in the vicinity of intake 007 (from offsite)

All toxicity tests were conducted at Coastal Bioanalytics Inc, 6400 Enterprise Court, Gloucester, VA 23061; (804) 694-8285

Results were submitted to DEQ.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) NO (go to Section IX)

| A. NAME | B. ADDRESS | C. TELEPHONE (area code & no.) | D. POLLUTANTS ANALYZED (list) |
|------------------------|--|--|--|
| James R. Reed & Assoc. | 770 Pilot House Drive, Newport News, VA 23606 | (757) 873-4703 (757) 873-1498 (FAX) | TOC, TSS, COD |
| Universal Laboratories | 20 Research Drive Hampton, VA 23666 | (757) 865-0880 | TOC, TSS, COD, BOD, metals, Volatiles Semi-volatiles, Form 2C analytes, WQ analytes |
| | | () | |
| | | () | |

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)

Karl R. Bostaph, Plant Manager

C. SIGNATURE

B. PHONE NO. (area code & no.)

(804) 541-4400

D. DATE SIGNED

08/19/2009

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAD003121928

Outfall
005

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | 3. UNITS (specify if blank) | | | 4. INTAKE (optional) | | |
|---|---|--|--|--------------------------------------|---|--|--|-------------------------|-------|
| | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION (2) MASS | d. NO. OF ANALYSIS (2) MASS | a. CONCEN- TRATION (1) CONCENTRATION | b. MASS (1) CONCENTRATION (2) MASS | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES | |
| a. Biochemical Oxygen Demand (BOD) | < 2 | ND | | | | 1 | mg/l | kg/d | < 2 |
| b. Chemical Oxygen Demand (COD) | 82 | 12.4 | | 29 | 2.9 | 35 | mg/l | kg/d | 21 |
| c. Total Organic Carbon (TOC) | 20 | 2.7 | | 4.9 | .48 | 35 | mg/l | kg/d | 4.08 |
| d. Total Suspended Solids (TSS) | 36 | 1.8 | | 16 | 1.48 | 37 | mg/l | kg/d | 8.9 |
| e. Ammonia (as N) | 2.9 | 0.31 | | | 1 | mg/l | kg/d | 0.9 | 0.007 |
| f. Flow | Value 0.050 MGD | Value 0.026 MGD | | 42 | — | — | Value 0.002 MGD | Value Ambient | 1 |
| g. Temperature (winter) | Ambient | Value | | | °C | °C | Value Ambient | Value Ambient | |
| h. Temperature (summer) | Ambient | Value | | | °C | °C | Value Ambient | Value Ambient | |
| i. pH | Minimum 6.4 | Maximum 7.5 | Maximum | 37 | STANDARD UNITS | | | | |
| 2. MARK 'X' | PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements. | | | | | | | | |
| 1. POLLUTANT AND CAS NO. (if available) | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION (2) MASS | d. NO. OF ANALYSIS (2) MASS | 4. UNITS (specify if blank) | | | | |
| a. Bromide (24955-67-9) | X | < 0.500 | ND | | 1 | mg/l | kg/d | < 0.500 | ND |
| b. Chlorine, Total Residual | X | < 0.1 | ND | | 1 | mg/l | kg/d | NA | NA |
| c. Color | 5 | -- | | | 1 | pcu | -- | 10 | -- |
| d. Fecal Coliform | 540 | -- | | | 1 | mpn/ 100 ml | -- | 170 | -- |
| e. Fluoride (16983-48-8) | 0.5 | 0.06 | | | 1 | mg/l | kg/d | 0.3 | 0.002 |
| f. Nitrate-Nitrite (as N) | 7.75 | 0.91 | | | 1 | mg/l | kg/d | 4.87 | 0.04 |

PART C - Mark "X" in column 2-b for each pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 3. EFFLUENT | 4. UNITS (specify if blank) | | | 5. INTAKE (optional) | | | | | |
|-----------------------------|---|--|--|-----------------------------------|---|--|--|-----------------------|-------|
| | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION (2) MASS | d. NO. OF ANALYSIS (2) MASS | a. CONCEN- TRATION (1) CONCENTRATION | b. MASS (1) CONCENTRATION (2) MASS | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES | |
| a. Bromide (24955-67-9) | X | < 0.500 | ND | | 1 | mg/l | kg/d | NA | NA |
| b. Chlorine, Total Residual | X | < 0.1 | ND | | 1 | mg/l | kg/d | NA | NA |
| c. Color | 5 | -- | | | 1 | pcu | -- | 10 | -- |
| d. Fecal Coliform | 540 | -- | | | 1 | mpn/ 100 ml | -- | 170 | -- |
| e. Fluoride (16983-48-8) | 0.5 | 0.06 | | | 1 | mg/l | kg/d | 0.3 | 0.002 |
| f. Nitrate-Nitrite (as N) | 7.75 | 0.91 | | | 1 | mg/l | kg/d | 4.87 | 0.04 |

CONTINUED FROM PAGE V-1 OF FORM 2-C

EPA ID. NUMBER (copy from Item 1 of Form 1)
VAD003121928

)

OUTFALL NUMBER
005

| 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|---------------------|-------------------------------|---|---|--------------------|--|--------------------|
| 1. POLLUTANT AND CAS NO. (if available) | b. BE-LEVED PRESENT | a. MAXIMUM DAILY VALUE | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVERG. VALUE (if available) | d. NO. OF ANALYSIS | e. LONG TERM AVERAGE VALUE (2)MASS CONCENTRATION ⁽¹⁾ | f. NO. OF ANALYSES |
| | | (1) CONCENTRATION (2) MASS | (1) CONCENTRATION (2) MASS | (1) CONCENTRATION (2) MASS | | b. MASS CONCENTRATION ⁽¹⁾ | |
| g. Nitrogen, Total Organic (as N) | | 0.3 | 0.02 | | | 0.8 | 0.006 |
| h. Oil and Grease | | < 5 | ND | | | < 5 | ND |
| i. Phosphorus (as P), Total (7723-14-0) | | 0.19 | 0.02 | | 0.009 | 0.05 | 1 |
| j. Radioactivity | | | | | | | |
| (1) Alpha, Total | X | | | | | | |
| (2) Beta, Total | X | | | | | | |
| (3) Radium, Total | X | | | | | | |
| (4) Radium 226, Total | X | | | | | | |
| k. Sulfate (as SO ₄) (14808-79-8) | | 108.7 | 12.8 | | 1 | mg/l | 0.55 |
| l. Sulfide (as S) (14265-45-3) | < 0.04 | ND | | | 1 | kg/d | < 0.04 |
| m. Sulfite (as SO ₃) (14265-45-3) | < 0.05 | ND | | | 1 | kg/d | < 0.5 |
| n. Surfactants | < 0.2 | ND | | | 1 | kg/d | < 0.2 |
| o. Aluminum, Total (7429-90-5) | 0.668 | 0.078 | | | 1 | mg/l | 0.891 |
| p. Barium, Total (7440-39-3) | 0.044 | 0.005 | | | 1 | kg/d | 0.061 |
| q. Boron, Total (7440-42-8) | 0.54 | 0.006 | | | 1 | mg/l | 0.100 |
| r. Cobalt, Total (7440-48-4) | 0.009 | 0.001 | | | 1 | mg/l | 0.006 |
| s. Iron, Total (7439-89-4) | 0.76 | 0.089 | | | 1 | mg/l | 0.94 |
| t. Magnesium, Total (7439-95-4) | 4.98 | 0.584 | | | 1 | kg/d | 5.72 |
| u. Molybdenum, Total (7439-98-7) | 0.004 | 0.0005 | | | 1 | mg/l | 0.006 |
| v. Manganese, Total (7439-96-5) | 0.499 | 0.059 | | | 1 | mg/l | 0.606 |
| w. Tin, Total (7440-31-5) | < 0.005 | ND | | | 1 | mg/l | 0.044 |
| x. Titanium, Total (7440-32-6) | 0.019 | 0.002 | | | 1 | mg/l | < 0.005 |
| | | | | | | | ND |

CONTINUED FROM PAGE V-2 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1)

VAD003121928OUTFALL NUMBER
005

| | | | | | | | |
|--|--|--------------------|--------------------------|---------------------|------------------------|---|---|
| PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions) mark "X" in column 2-b for each pollutant you believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater, if you mark column 2b for acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements. | | | | | | | |
| 1. POLLUTANT AND CAS NO. (if available) | | a. TEST-REQUIRED | b. BE-LIEVED PRE-PRESENT | c. BE-LIEVED ABSENT | a. MAXIMUM DAILY VALUE | b. MAXIMUM 30 DAY VALUE (if available) | |
| | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | c. LONG TERM AVERAGE VALUE (if available) | |
| | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSIS | |
| 2. MARK 'X' | | 3. EFFLUENT | | | | | 5. INTAKE (optional) |
| | | (specify if blank) | | | | | a. LONG TERM AVERAGE VALUE |
| | | | | | | | b. NO. OF ANALYSES |
| | | | | | | | b. MASS |
| | | | | | | | c. MASS |
| | | | | | | | d. MASS |
| METALS, CYANIDE, AND TOTAL PHENOLS | | | | | | | |
| 1m. Antimony, Total | | | | | | | 1 mg/l |
| (7440-36-0) | | | | | | | 0.0008 |
| 2m. Arsenic, Total | | | | | | | < 0.005 |
| (7440-38-2) | | | | | | | ND |
| 3m. Beryllium, Total | | | | | | | < 0.001 |
| (7440-41-7) | | | | | | | ND |
| 4m. Cadmium, Total | | | | | | | < 0.005 |
| (7440-43-9) | | | | | | | ND |
| 5m. Chromium, Total | | | | | | | < 0.005 |
| (7440-47-3) | | | | | | | ND |
| 6m. Copper, Total | | | | | | | 0.014 |
| (7440-50-8) | | | | | | | 0.002 |
| 7m. Lead, Total | | | | | | | 0.008 |
| (7439-92-1) | | | | | | | 0.0009 |
| 8m. Mercury, Total | | | | | | | < 0.0002 |
| (7439-97-6) | | | | | | | ND |
| 9m. Nickel, Total | | | | | | | 0.007 |
| (7440-02-0) | | | | | | | 0.0008 |
| 10m. Selenium, Total | | | | | | | < 0.005 |
| (7782-49-2) | | | | | | | ND |
| 11m. Silver, Total | | | | | | | < 0.005 |
| (7440-22-4) | | | | | | | ND |
| 12m. Thallium, Total | | | | | | | < 0.005 |
| (7440-28-0) | | | | | | | ND |
| 13m. Zinc, Total | | | | | | | 0.242 |
| (7440-66-6) | | | | | | | 0.028 |
| 14m. Cyanide, Total | | | | | | | < 0.005 |
| (57-12-5) | | | | | | | ND |
| 15m. Phenols, Total | | | | | | | X |
| | | | | | | | < 0.1 |
| | | | | | | | ND |
| DIOXIN | | | | | | | |
| 2,3,7,8-tetra-Chlorodibenz-P-Dioxin (11764-01-6) | | | | | | | X |
| | | | | | | | No source of dioxin. Also verified absent by scan for 2003 VPDES application. |

CONTINUED FROM PAGE V-3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAD003121928**

| 1. POLLUTANT AND CAS NO. (if available) | | | | 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | | |
|---|----------------------------------|----------------------------|---|---|---|--------------------|---|--------------------------------|---|---|--------------------|---|
| a. TEST- ING RE- QUIRED | b. BE- LIEVED PRE- SENT | c. BE- LIEVED ABSENT | a. MAXIMUM DAILY VALUE (if available) | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVRG. VALUE (if available) | d. NO. OF ANALYSIS | a. LONG TERM AVERAGE VALUE (if available) | b. NO. OF ANALYSES | a. CONCENTRATION N (1) MASS (2) MASS | b. MASS (1) CONCENTRATION N (2) MASS | b. NO. OF ANALYSES | |
| GC/MS - VOLATILE COMPOUNDS | | | | | | | | | | | | |
| 1V Acrolein (107-02-8) | | X | < 100 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 100 | ND | 1 |
| 2V Acrylonitrile (107-13-1) | | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 5 | ND | 1 |
| 3V Benzene (71-43-2) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 4V Bis (Chloro-methyl) Ether (542-88-1) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 5V Bromoform (75-25-2) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 6V Carbon Tetrachloride (56-23-5) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 7V Chlorobenzene (108-90-7) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 8V Chlorodi-bromomethane (124-48-1) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 9V Chloroethane (75-00-3) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 10V 2-Chloro-ethylvinyl Ether (110-75-8) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 11V Chloroform (67-66-3) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 12V Dichloro-bromoethane (75-71-8) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 13V Dichloro-methane (75-71-8) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 14V 1,1-Dichloro-ethane (107-06-2) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 15V 1,2-Dichloro-ethane (75355-4) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 17V 1,2-Dichloro-propane (78-87-5) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 18V 1,3-Dichloro-propylene (542-76-6) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 19V Ethylbenzene (100-41-4) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 20V Methyl Bromide (74-83-9) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |
| 21V Methyl Chloride (74-87-3) | | X | < 1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d | < 1 | ND | 1 |

CONTINUED FROM PAGE V-4 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAD003121928**

OUTFALL NUMBER **005**

| 1. POLLUTANT ANT/CAS NO. (if available) | 2. TEST- ING RE- QUIRED | a. TEST- ING RE- QUIRED (if available) | b. BE- LIEVED PRESENT | c. BE- LIEVED ABSENT | 3. EFFLUENT | | d. NO. OF ANALYSIS | e. LONG TERM AVERG. (if available) | f. CONCENTRATION (1) CONCENTRATION (2) MASS | 4. UNITS (specify if blank) | | g. NO. OF ANALYSES | |
|---|-------------------------------|---|-----------------------------|----------------------------|--|--|--------------------|---------------------------------------|--|--------------------------------|-----|--------------------|---|
| | | | | | a. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS | | | a. CONCEN- TRATION (1) CONCENTRATION (2) MASS | b. MASS | | | |
| GC/MS - VOLATILE COMPOUNDS (continued) | | | | | | | | | | | | | |
| 22V Methylene Chloride | | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 23V 1,1,2,2-Tetra-Chloroethane | | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 24V Tetrachloro-Ethylene | {127-18-4} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 25V Toluene | {108-88-3} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 26V 1,2-Trans-Dichloroethylene | {156-60-5} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 27V 1,1,1-Trichloroethane | {71-55-6} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 28V 1,1,2-Trichloroethane | {73-59-4} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 29V Trichloro-Ethylene | {78-01-6} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 30V Trichloro-fluoromethane | {75-00-5} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| 31V Vinyl Chloride | {75-01-4} | X | < 1 | ND | | | | 1 | µg/l | kg/d | < 1 | ND | 1 |
| GC/MS FRACTION - ACID COMPOUNDS | | | | | | | | | | | | | |
| 1A2-Chlorophenol | {95-57-8} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 2A 2,4-Dichloro-phenol | {120-83-2} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 3A 2,4-Dimethyl-phenol | {105-67-9} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 4A 4,6-Dinitro-O-cresol | {534-52-1} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 5A 2,4-Dinitro-phenol | {51-28-5} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 6A 2-Nitro-phenol | {100-02-7} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 7A 4-Nitro-phenol | {88-75-5} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 8A P-Chloro-M-Cresol | {59-50-7} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 9A Penta-chlorophenol | {87-36-5} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 10A Phenol | {10-95-2} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |
| 11A 2,4,6-Trichlorophenol | {88-06-2} | | X | < 5 | ND | | | 1 | µg/l | kg/d | < 5 | ND | 1 |

CONTINUED FROM PAGE V-5 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1)
VAD003121928OUTFALL NUMBER
005

| 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|-------------------------------|----------------------------------|----------------------------|---|--|--|-----------------------|
| 1. POLLUT- ANT AND CAS NO. (if available) | a. TEST- ING RE- QUIRED | b. BE- LIEVED PRE- SENT | c. BE- LIEVED ABSENT | a. MAXIMUM DAILY VALUE (if available) | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVERG. VALUE (if available) | d. NO. OF ANALYSIS |
| | | | | (1) CONCENT- RATION | (2) MASS | (1) CONCENT- RATION | (2) MASS |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS | | | | | | | |
| 1B Acenaphthene (83-32-9) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 2B Acenaphthylene (208-96-8) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 3B Anthracene (120-12-7) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 4B Benzidine (92-87-5) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 5B Benzo (a) Anthracene (56-55-3) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 6B Benzo (a) Pyrene (50-32-8) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 7B 3,4-Benzo- fluoranthene (205-99-2) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 8B Benzo (g/h) Perylene (191-24-2) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 9B Benzo (k) Fluoranthene (207-08-9) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 10B Bis (2- Chloroethoxy) Methane (111-91-1) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 11B Bis (2-chloro- ethyl) Ether (111-44-4) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 12B Bis (2- Chloroepoxy) Ether (101-55-3) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 13B Bis (2-Ethy- hexyl) Phthalate (117-81-7) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 14B 4-Bromo- phenyl Phenyl Ether (101-55-3) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 15B Butyl Benzyl Phthalate (85-68-7) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 16B 2-Chloro- naphthalene (81-68-7) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 17B 4-Chloro- phenyl Phenyl Ether (7005-72-3) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 18B Chrysene (218-01-9) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 19B Dibenzo (a/h) Anthracene (53-70-3) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 20B 1,2-Dichloro- benzene (95-50-1) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |
| 21B 1,3-Dichloro- benzene (541-73-1) | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ |

CONTINUED FROM PAGE V-6 OF FORM 2-C

EPA I.D. NUMBER (Copy from Item 1 of Form 1)

VAD003121928

OUTFALL NUMBER
005

| 1. POLLUT- ANT AND CAS NO. (if available) | 2. MARK X' | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|------------|-------------------------------|----------------------------------|---|---|--|-----------------------|
| | | a. TEST- ING RE- QUIRED | b. BE- LIEVED PRE- SENT | a. MAXIMUM DAILY VALUE (1) CONCENT- RATION (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENT- RATION (2) MASS | c. LONG TERM AVERG. VALUE (if available) (1) CONCENT- RATION (2) MASS | d. NO. OF ANALYSIS |
| GC/MS - BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | |
| 22B 1,4-Dichloro- benzene (106-46-7) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 23B 3,3'Dichloro- benzidine (91-94-1) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 24B Diethyl Phthalate (84-66-2) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 25B Dimethyl Phthalate (131-11-3) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 26B Di-N-Butyl Phthalate (131-11-3) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 27B 2,4-Dinitro- toluene (121-14-2) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 28B 2,6-Dinitro- toluene (606-20-2) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 29B Di-N-Octyl Phthalate (117-84-0) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 30B 1,2-Dihydro- hydrazine (as Azo-benzene) (122-66-7) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 31B Fluoranthene (206-44-0) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 32B Fluorene (86-73-7) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 33B Hexa- chlorobenzene (118-74-1) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 34B Hexa- chlorobutadiene (87-68-3) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 35B Hexachloro- cyclopentadiene (77-47-4) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 36B Hexa- chloroethane (67-72-1) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 37B Indeno (1,2,3- <i>ad</i>) Pyrene (193-39-5) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 38B Sphingotone (78-59-1) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 39B Naphthalene (91-20-3) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 40B Nitrobenzene (98-95-3) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 41B N-Nitro- sodimethylamine (62-75-9) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |
| 42B N-Nitrosod-N- Propylamine (621-64-7) | X | < 5 | ND | | 1 | <i>kg/l</i> | < 5 |

CONTINUED FROM PAGE V-7 OF FORM 2-C

EPA I.D. NUMBER (Copy from Item 1 of Form 1) **VAD003121928**OUTFALL NUMBER
005

| 1. POLLUT- ANT AND CAS NO. (if available) | 2. MARK X ^a a. TEST- ING RE- QUIRED | b. BE- LIEVED PRESENT | c. BE- LIEVED ABSENT | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|--|---|-----------------------------|----------------------------|---|---|--|-----------------------------------|--|---------------------|
| | | | | a. MAXIMUM DAILY VALUE (1) CONCENT- RATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVERG. VALUE (if available) (1) CONCENT- RATION (2) MASS | d. NO. OF ANALYSIS (2) MASS | a. CONCEN- TRATION (1) MASS N | b. MASS (2) MASS |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | |
| 43B N-Nitro- sociphenylamine (86-30-6) | | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 44B Phenanthrene (85-01-7) | | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 45B Pyrene (129-00-0) | | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 46B 1,2,4-Tri- chlorobenzene (120-82-1) | | X | < 5 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| GC/MS FRACTION - PESTICIDES | | | | | | | | | |
| 1P Aldrin (309-00-2) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 2P α -Bhc (319-84-6) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 3P β -Bhc (319-85-7) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 4P γ -BHC (58-99-9) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 5P δ -BHC (319-86-8) | | X | < 0.05 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 6P Chlordane (57-74-9) | | X | < 0.2 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 7P 4,4'-DDT (50-29-3) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 8P 4,4'-DDE (72-55-9) | | X | < 0.1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 9P 4,4'-DDD (72-54-8) | | X | < 0.1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 10P Dieldrin (60-57-1) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 11P α -Endo- sulfan (115-29-7) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 12P β -Endo- sulfan (115-29-7) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 13P Endosulfan Sulfate (1031-07-8) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 14P Endrin (72-20-8) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 15P Endrin Aldehyde (7421-93-4) | | X | < 0.1 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |
| 16P Hepta- chlor (76-44-8) | | X | < 0.04 | ND | | | 1 | $\mu\text{g/l}$ | kg/d |

CONTINUED FROM PAGE V-8 OF FORM 2-C

| | |
|--|----------------|
| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
| VAD003121928 | 005 |

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|---------------------|------------------|----------------|--|---|--|----------------------|--|
| | a. TESTING REQUIRED | b. BEING PRESENT | c. BEEN ABSENT | a. MAXIMUM DAILY VALUE (if available) | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVERAGE VALUE (if available) | d. NO. OF ANALYSES | a. LONG TERM AVERAGE VALUE (if available) |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | a. CONCENTRATION |
| GC/MS - PESTICIDES (continued) | | | | | | | | |
| 17P Heptachlor Epoxide (1024-57-3) | | | X | < 0.05 | ND | | | 1 µg/l < 0.05 ND 1 |
| 18P PCB-1242 (63469-21-9) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 19P PCB-1254 (11097-69-1) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 20P PCB-1221 (11104-28-2) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 21P PCB-1232 (11141-16-5) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 22P PCB-1248 (12672-28-6) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 23P PCB-1280 (11096-82-5) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 24P PCB-1016 (12674-11-2) | | | X | < 0.5 | ND | | | 1 µg/l < 0.5 ND 1 |
| 25P Toxaphene (8001-35-2) | | | X | < 1 | ND | | | 1 µg/l < 1 ND 1 |

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAD003121928

Outfall
006

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

2. EFFLUENT

| 1. POLLUTANT | a. MAXIMUM DAILY VALUE CONCENTRATION (⁽¹⁾ MASS) | b. MAXIMUM 30 DAY VALUE CONCENTRATION (⁽¹⁾ MASS) | c. LONG TERM AVERAGE VALUE (if available) CONCENTRATION (⁽¹⁾ MASS) | d. NO. OF ANALYSIS (⁽²⁾ MASS) | 3. UNITS (specify if blank) | | 4. INTAKE (optional) |
|---|---|--|---|---|--|--|----------------------|
| | | | | | a. CONCEN-TRATION (⁽¹⁾ MASS) | b. MASS CONCENTRATION (⁽²⁾ MASS) | |
| a. Biochemical Oxygen Demand (BOD) | < 2 | ND | | | 1 | mg/l | kg/d |
| b. Chemical Oxygen Demand (COD) | 79 | 15 | | | 34 | 3.3 | mg/l |
| c. Total Organic Carbon (TOC) | 10.1 | 0.6 | | | 5.4 | 0.53 | kg/d |
| d. Total Suspended Solids (TSS) | 108 | 9.0 | | | 24 | 2.4 | kg/d |
| e. Ammonia (as N) | < 0.2 | ND | | | 1 | mg/l | kg/d |
| f. Flow | 0.055 | | Value | | | | Value |
| g. Temperature (winter) | Ambient | Value | | | | °C | Value |
| h. Temperature (summer) | Ambient | Value | | | | °C | Value |
| i. pH | 6.5 | Maximum 7.4 | Minimum 7.4 | Maximum | 0.026 MGD | | 36 STANDARD UNITS |
| PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements. | 2. MARK X | 2. EFFLUENT | 2. EFFLUENT | 2. EFFLUENT | 2. EFFLUENT | 2. EFFLUENT | 2. EFFLUENT |
| 1. POLLUTANT AND CAS NO (if available) | a. BE-LEVE-D AB-PRES-ENT | a. MAXIMUM DAILY VALUE CONCENTRATION (⁽¹⁾ MASS) | b. MAXIMUM 30 DAY VALUE CONCENTRATION (⁽¹⁾ MASS) | c. LONG TERM AVERAGE VALUE (if available) CONCENTRATION (⁽¹⁾ MASS) | d. NO. OF ANALYSIS (⁽²⁾ MASS) | 3. UNITS (specify if blank) | 4. INTAKE (optional) |
| a. Bromide (24950-67-9) | X | < 0.500 | ND | | | 1 mg/l | kg/d |
| b. Chlorine, Total Residual | X | < 0.1 | ND | | 1 | pcu | -- |
| c. Color | | 60 | -- | | 1 | mpn/100ml | -- |
| d. Fecal Coliform | 49 | -- | | | 1 | mg/l | kg/d |
| e. Fluoride (16984-48-8) | | 0.2 | 0.023 | | 1 | mg/l | kg/d |
| f. Nitrate-Nitrite (as N) | 1.02 | 0.12 | | | 1 | mg/l | kg/d |

PART C - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

2. EFFLUENT

| 1. POLLUTANT | a. BE-LEVE-D AB-PRES-ENT | a. MAXIMUM DAILY VALUE CONCENTRATION (⁽¹⁾ MASS) | b. MAXIMUM 30 DAY VALUE CONCENTRATION (⁽¹⁾ MASS) | c. LONG TERM AVERAGE VALUE (if available) CONCENTRATION (⁽¹⁾ MASS) | d. NO. OF ANALYSIS (⁽²⁾ MASS) | 3. UNITS (specify if blank) | | 4. INTAKE (optional) |
|-----------------------------|--------------------------|---|--|---|--|---|--|----------------------|
| | | | | | | a. CONCEN-TRATION (⁽¹⁾ MASS) | b. MASS CONCENTRATION (⁽²⁾ MASS) | |
| a. Bromide (24950-67-9) | X | < 0.500 | ND | | | 1 | mg/l | kg/d |
| b. Chlorine, Total Residual | X | < 0.1 | ND | | 1 | pcu | -- | |
| c. Color | | 60 | -- | | 1 | mpn/100ml | -- | |
| d. Fecal Coliform | 49 | -- | | | 1 | mg/l | kg/d | |
| e. Fluoride (16984-48-8) | | 0.2 | 0.023 | | 1 | mg/l | kg/d | |
| f. Nitrate-Nitrite (as N) | 1.02 | 0.12 | | | 1 | mg/l | kg/d | |

CONTINUED FROM PAGE V-1 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAD003121928****006**

OUTFALL NUMBER

| 1. POLLUTANT AND CAS NO. (if available) | | 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|-----------------------|------------------------|---------------|---|----------|--|--------------|----------------------|--------------------|
| a. BE- LIEVED PRE-SENT | b. BE- LIEVED AB-SENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVERAGE VALUE (if available ^b) | | d. NO. OF ANALYSIS | b. NO. OF ANALYSES |
| | | (1) CONCENTRA- TION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | |
| g. Nitrogen, Total Organic (as N) | | 0.8 | 0.091 | | | | | 1 | |
| h. Oil and Grease | | < 5 | ND | | | | | 1 | |
| i. Phosphorus (as P, Total (7723-14-0)) | | 0.25 | 0.021 | | | 0.17 | 0.019 | 8 | |
| j. Radioactivity | | | | | | | | | |
| (1) Alpha, Total | X | | | | | | | | |
| (2) Beta, Total | X | | | | | | | | |
| (3) Radium, Total | X | | | | | | | | |
| (4) Radium 226, Total | X | | | | | | | | |
| k. Sulfate (as SO ₄) (14265-45-3) | | 80.1 | 9.10 | | | | | 1 | |
| l. Sulfide (as S) | | < 0.04 | ND | | | | | 1 | |
| m. Sulfite (as SO ₃) (14265-45-3) | | < 0.5 | ND | | | | | 1 | |
| n. Surfactants | | < 0.2 | ND | | | | | 1 | |
| o. Aluminum, Total (7429-90-5) | | 0.679 | 0.077 | | | | | 1 | |
| p. Barium, Total (7440-99-3) | | 0.051 | 0.006 | | | | | 1 | |
| q. Boron, Total (7440-42-8) | | 0.050 | 0.006 | | | | | 1 | |
| r. Cobalt, Total (7440-48-4) | | 0.002 | 0.0002 | | | | | 1 | |
| s. Iron, Total (7439-99-4) | | 1.81 | 0.206 | | | | | 1 | |
| t. Magnesium, Total (7439-95-4) | | 6.44 | 0.73 | | | | | 1 | |
| u. Molybdenum, Total (7439-98-7) | | 0.006 | 0.001 | | | | | 1 | |
| v. Manganese, Total (7439-98-5) | | 0.342 | 0.039 | | | | | 1 | |
| w. Tin, Total (7440-31-5) | | < 0.005 | ND | | | | | 1 | |
| x. Titanium, Total (7440-32-6) | | 0.052 | 0.006 | | | | | 1 | |

CONTINUED FROM PAGE V-2 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1)

VAD003121928

OUTFALL NUMBER

006

| <p>PART C - If you are a primary industry and this outfall contains process wastewater refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.</p> | | | | | | |
|--|-------------------------------|----------------------------------|----------------------------|---------------------------|---|---------------------------------------|
| <p>2. MARK 'X'</p> | | | | | | |
| <p>3. EFFLUENT</p> | | | | | | |
| 1. POLLUT- ANT AND CAS NO. (if available) | a. TEST- ING RE- QUIRED | b. BE- LIEVED PRE- SENT | c. BE- LIEVED ABSENT | a. MAXIMUM DAILY VALUE | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVERG. (if available) |
| | | | | (1) CONCENT- RATION | (2) MASS | (1) CONCENT- RATION |
| METALS, CYANIDE, AND TOTAL PHENOLS | | | | | | |
| 1m. Antimony, Total (7440-36-0) | | | | < 0.005 | ND | |
| 2M Arsenic, Total (7440-38-2) | | | | < 0.005 | ND | |
| 3M Beryllium, Total (7440-41-7) | | | | < 0.001 | ND | |
| 4M Cadmium, Total (7440-43-9) | | | | < 0.005 | ND | |
| 5M Chromium, Total (7440-47-3) | | | | < 0.005 | ND | |
| 6M Copper, Total (7440-50-8) | | | | 0.022 | 0.002 | |
| 7M Lead, Total (7439-92-1) | | | | < 0.005 | ND | |
| 8M Mercury, Total (7439-97-6) | | | | < 0.0002 | ND | |
| 9M Nickel, Total (7440-02-0) | | | | < 0.005 | ND | |
| 10M Selenium, Total (7782-49-2) | | | | < 0.005 | ND | |
| 11M Silver, Total (7440-22-4) | | | | < 0.005 | ND | |
| 12M Thallium, Total (7440-28-0) | | | | < 0.005 | ND | |
| 13M Zinc, Total (7440-66-6) | | | | 0.030 | 0.003 | |
| 14M Cyanide, Total (57-12-5) | | | | < 0.005 | ND | |
| 15M Phenols, Total DIOXIN | X | < 0.1 | ND | | | |
| DESCRIBE RESULTS No source of dioxin. Also verified absent by scan for 2003 VPDES application | | | | | | |

CONTINUED FROM PAGE V-3 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1)
VAD003121928OUTFALL NUMBER
006

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' | a. TEST-ING REQUIRED | b. BE-LIEVED PRESENT | c. BE-LIEVED ABSENT | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|--|-------------|----------------------|----------------------|---------------------|---|--|--|--------------------------------|---|--|
| | | | | | a. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS | c. LONG TERM AVGR. VALUE (if available) (1) CONCENTRATION (2) MASS | d. NO. OF ANALYSIS (2) MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS | b. MASS (1) CONCENTRATION (2) MASS |
| GC/MS - VOLATILE COMPOUNDS | | | | | | | | | | |
| 1V Acrolein (107-02-8) | X | | < 100 | ND | | | | | 1 | µg/l kg/d |
| 2V Acrylonitrile (107-13-1) | X | | < 5 | ND | | | | | 1 | µg/l kg/d |
| 3V Benzene (71-43-2) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 4V Bis (Chloromethyl) Ether (542-88-1) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 5V Bromoform (75-25-2) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 6V Carbon Tetrachloride (56-23-5) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 7V Chlorobenzene (108-90-7) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 8V Chlorodibromomethane (124-48-1) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 9V Chloroethane (75-00-3) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 10V 2-Chloroethylvinyl Ether (110-75-8) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 11V Chloroform (67-66-3) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 12V Dichloror bromoethane (75-71-8) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 13V Dichlorofluoromethane (75-71-8) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 14V 1,1-Dichloroethane (75-34-3) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 15V 1,2-Dichloroethane (107-06-2) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 16V 1,1-Dichloroethylene (75355-4) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 17V 1,2-Dichloropropane (78-87-5) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 18V 1,3-Dichloropropene (542-76-6) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 19V Ethylbenzene (100-41-4) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 20V Methyl Bromide (74-83-9) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |
| 21V Methyl Chloride (74-87-3) | X | | < 1 | ND | | | | | 1 | µg/l kg/d |

CONTINUED FROM PAGE V-4 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1)
VAD003121928OUTFALL NUMBER
006

| 1. POLLUTANT AND CAS NO. (if available) | | | | 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|----------------------|--------------|--|---|----------|--|----------|-----------------------------|----------------------------|----------------------|--|
| a. TEST-REQUIRED | b. BE-LIEVED PRESENT | c. BE-ABSENT | a. MAXIMUM DAILY VALUE (if available) | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSIS | e. LONG TERM AVERAGE VALUE | f. NO. OF ANALYSES | |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | |
| GC/MS - VOLATILE COMPOUNDS (continued) | | | | | | | | | | | |
| 22V Methylene Chloride (75-09-2) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 23V 1,1,2,2-Tetra-Chloroethane (79-34-5) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 24V Tetrahydro-ethylene (127-18-4) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 25V Toluene (108-88-3) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 26V 1,2-trans-Dichloroethylene (156-60-5) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 27V 1,1,1-Trichloroethane (71-55-6) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 28V 1,1,2-Trichloroethane (79-00-5) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 29V Trihalo-ethylene (79-01-6) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 30V Trichlorofluoromethane (75-69-4) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 31V Vinyl Chloride (75-01-4) | | X | < 1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| GC/MS FRACTION - ACID COMPOUNDS | | | | | | | | | | | |
| 1A 2-Chlorophenol (95-57-8) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 2a 2,4-Dichloropheno | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 3a 2,4-Dimethylphenol (51-28-5) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 4a 4,6-Dinitro-O-cresol (534-52-1) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 5a 2,4-Dinitro-phenol (120-53-2) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 6a 2-Nitro-phenol (105-67-9) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 7A 4-Nitro-phenol (100-42-7) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 8A 2-Chloro-M-Cresol (59-50-7) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 9a Penta-chlorophenol (67-86-5) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 10A Phenol (101-95-2) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 11A 2,4,6-Tri-chlorophenol (88-06-2) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |

CONTINUED FROM PAGE V-5 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAD003121928OUTFALL NUMBER
006

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' | a. TEST-REQUIRED | b. BE-LEVED PRESENT | c. BE-LEVED ABSENT | 3. EFFLUENT | | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVRG. (if available) | d. NO. OF ANALYSIS | 4. UNITS (specify if blank) | | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE b. NO. OF ANALYSES |
|---|-------------|------------------|---------------------|--------------------|-------------------|----------|---|--------------------------------------|--------------------|--------------------------------|----------|--|
| | | | | | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | |
| 1B Acenaphthene (83-32-9) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 2B Acetylene (208-96-8) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 3B Anthracene (120-12-7) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 4B Benzidine (92-87-5) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 5B Benzo (a) Anthracene (56-55-3) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 6B Benzo (a) Pyrene (50-32-3) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 7B 3,4-Benzo-fluoranthene (205-99-2) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 8B Benzo (g,h,i) Perylene (191-24-2) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 9B Benzo (k) Fluoranthene (207-08-9) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 10B Bis (2-Chlorotethoxy) Methane (111-91-1) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 11B Bis (2-Chloroethyl) Ether (111-44-4) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 12B Bis (2-Chloroisopropyl) Ether (102-60-1) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 13 Bis (2-Ethoxyhexyl) Phthalate (117-81-7) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 14 B-4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 15B Butyl Benzyl Phthalate (85-68-7) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 16B 2-Chloronaphthalene (91-68-7) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 17B 4-Chlorophenyl Phenyl Ether (7005-22-3) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 18B Chrysene (218-01-9) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 19B Dielenzo (e,i) Anthracene (53-70-3) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 20B 1,2-Dichlorobenzene (95-50-1) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |
| 21B 1,3-Dichlorobenzene (541-73-1) | | | X | < 5 | ND | | | | | 1 | µg/l | kg/d |

CONTINUED FROM PAGE V-6 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1)

VAD003121928

OUTFALL NUMBER
006

2. MARK 'X'

3. EFFLUENT

4. UNITS
(specify if blank)

5. INTAKE (optional)

a. LONG TERM
AVERAGE VALUEb. NO. OF
ANALYSESa. TEST-
ING RE-
QUIREDa. MAXIMUM DAILY
VALUEb. MAXIMUM 30 DAY VALUE
(if available)

c. CONCENTRATION

(1) CONCENT-
RATION

(2) MASS

d. CONCENTRATION

(1) CONCENT-
RATION

(2) MASS

e. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

f. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

g. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

h. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

i. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

j. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

k. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

l. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

m. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

n. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

o. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

p. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

q. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

r. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

s. CONCEN-
TRATION(1) CONCENT-
RATION

(2) MASS

GC/MS - BASE/NEUTRAL COMPOUNDS (continued)

CONTINUED FROM PAGE V-7 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAD003121928OUTFALL NUMBER
006

| 1. POLLUTANT AND CAS NO. (if available) | | | | 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|--|-----------------------------|----------------------------|---|---|---|--------------------|---|---|-----------------------------------|---|--------------------|
| a. TEST- ING RE- QUIRED | b. BE- LIEVED PRESENT | c. BE- LIEVED ABSENT | a. MAXIMUM DAILY VALUE (1) CONCENT- RATION (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENT- RATION (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENT- RATION (2) MASS | d. NO. OF ANALYSIS | a. LONG TERM AVERAGE VALUE (2) MASS | b. MASS CONCENTRA- TION ⁽¹⁾ N | a. CONCEN- TRATION (2) MASS | b. MASS CONCENTRA- TION ⁽¹⁾ N | b. NO. OF ANALYSES |
| GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | |
| 43B N-Nitro-sodiphenylamine (86-30-6) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 44B Phenanthrene (85-01-7) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 45B Pyrene (129-00-0) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 46B 1,2,4-Tri-chlorobenzene (120-82-1) | | X | < 5 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| GC/MS FRACTION - PESTICIDES | | | | | | | | | | | |
| 1P Aldrin (309-00-2) | | X | > 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 2P α -Bhc (319-84-6) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 3P β -Bhc (319-85-7) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 4P γ -BHC (58-89-9) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 5P δ -BHC (319-86-8) | | X | < 0.05 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 6P Chlordane (57-74-9) | | X | < 0.2 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 7P 4,4'-DDT (50-29-3) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 8P 4,4'-DDE (72-55-9) | | X | < 0.1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 9P 4,4'-DDD (72-54-8) | | X | < 0.1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 10P Dieldrin (60-57-1) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 11P α -Endo-sulfan (115-29-7) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 12P β -Endo-sulfan (115-29-7) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 13P Endosulfan Sulfate (1031-07-8) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 14P Endrin (72-20-8) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 15P Endrin Aldehyde (7421-93-4) | | X | < 0.1 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |
| 16P Hepa-chlor (76-44-8) | | X | < 0.04 | ND | | | | 1 | $\mu\text{g/l}$ | kg/d | |

CONTINUED FROM PAGE V-8 OF FORM 2-C

EPA ID NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
VAD003121928 006

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' | | 3. EFFLUENT | | 4. UNITS (specify if blank) | | 5. INTAKE (optional) | |
|---|----------------------|---------------------|--|---|--|--------------------|---|--|
| | a. TEST-ING REQUIRED | b. BELIEVED PRESENT | a. MAXIMUM DAILY VALUE (if available) | b. MAXIMUM 30 DAY VALUE (if available) | c. LONG TERM AVRG. VALUE (if available) | d. NO. OF ANALYSIS | a. LONG TERM AVERAGE VALUE b. NO. OF ANALYSES | |
| | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | a. CONCENTRATION ⁽¹⁾ CONCENTRATION ⁽²⁾ MASS | b. MASS ⁽¹⁾ CONCENTRATION ⁽²⁾ MASS |
| GC/MS - PESTICIDES (continued) | | | | | | | | |
| 17P Hepachlor Eoxide (1024-57-3) | | X | < 0.05 | ND | | | 1 | |
| 18P PCB-1242 (53469-21-9) | | X | < 0.5 | ND | | | 1 | |
| 19P PCB-1254 (11097-69-1) | | X | < 0.5 | ND | | | 1 | |
| 20P PCB-1221 (11104-28-2) | | X | < 0.5 | ND | | | 1 | |
| 21P PCB-1232 (11141-16-5) | | X | < 0.5 | ND | | | 1 | |
| 22P PCB-1248 (12672-29-6) | | X | < 0.5 | ND | | | 1 | |
| 23P PCB-1280 (11096-82-5) | | X | < 0.5 | ND | | | 1 | |
| 24P PCB-1016 (12674-11-2) | | X | < 0.5 | ND | | | 1 | |
| 25P Toxa-phenone (8001-35-2) | | X | < 1 | ND | | | 1 | |

ENCLOSURE 4 - Form 2C Item V Data Notes

The 2C instructions require all analyses from all Outfall 005 and 006 sampling run during the past year and indicated EPA be considered. Analyses more than three years old are prohibited. The only older analyses used (in some attachments) were related to projects done to improve water quality. For 2C analyses also required on DMR, all values starting 7/2006 were considered. To assure DMR data was representative of discharge, all results were evaluated to determine if they were within three standard deviation (3 sigma) of the mean. Of the few results that exceeded 3 sigma from the mean, we excluded the two differing most from the mean. For Outfall 005, which receives offsite influent, this included: TOC (August 2006 and March 2008) and COD (March 2008). For Outfall 006 the results believed non-representative were: TSS (September 2006 and March 2007) and TOC (December 2006). We noticed that lime addition required to neutralize acidic influent from Intake 007 may result in unexpectedly high TOC and COD numbers.

We resampled Intake 007 (to 005) because zinc *grab* sample data collected during zinc source and minimization work for Outfall 905(005) had indicated results close to 0.400 mg/L (400 ug/L) are much more expected than the 0.228 mg/L we initially obtained when we composite-sampled 007 for Form 2C contaminants. The resample composite tested 0.475 mg/L. The resulting average is 0.352 mg/L, which we believe better represents typical Intake 007 water.

For calculating averages, nil values (any report as less than the laboratory QL) were considered to be zero. However, if the QL was higher than required by our permit for compliance monitoring, nil is reported as the QL value. All analyses done to meet DMR compliance requirements did meet permit QL criteria.

All analyses were done by 40 CFR Part 136. Aside from the 007 resampling mentioned above, the analyses, in addition to normal DMR data needed to complete Form 2C and the 1/5yr Water Quality Criteria (WQ) analyses, were taken with a large April DMR sampling. Samples for which there was one analysis were taken on April 8-9, 2009. All results that were DMR-reportable were reported on the DMR, and all analysis reports were attached to the WQ report.

Dioxin is not required. There are no sources. Expected absence was verified for the 2003 permit application. Method 625 scan was used; with a Result = nil. There are no radioactivity sources on plant except indoor EXIT signs and smoke detectors which are not exposed to water discharges. Because of this, radioactivity analysis is not required. Nevertheless, radioactivity was done for WQ analyses and indicated no radioactivity in our wastewater.

All loadings are calculated as indicated by permit: kg/d = concentration (mg/l) x flow (MGD) x 3.785. Where there is one analysis, the flow for the April 8-9, 2009, sampling was used. Otherwise, average mass was calculated using average of DMR reported flows, and maximum mass was calculated using the flow for the day the maximum concentration was obtained.

Nitrogen, total organic, mg/l = total Kjeldahl Nitrogen, mg/l minus Ammonia as N, mg/l.